79. Postgraduate course (PC) Master of Dermoscopy and Preventive Dermatooncology: Republication

The Chairman of the Senate, Univ. Prof. Dr. Andreas WEDRICH, hereby gives notice that the Senate of the Medical University of Graz has approved the following curriculum during its meeting on January 30, 2019, in accordance with Section 25 para. 1 sentence 10 Universities Act (UG) as amended based on the resolution of the Curricular Committee for Postgraduate Education dated January 18, 2019.



Curriculum for the postgraduate course (PC)

Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol)

according to Section 56 Universities Act

2002 (UG) Federal Law Gazette I 2002/120

as amended

Version 02

Resolutions and history of amendments

Version	Date of resolution of Curricular Committee Postgraduate Education	Date of approval by Senate	Brief description of amendment	Effective date
01	November 10, 2014	December 10, 2014	First submission	January 7, 2015
02	June 4, 2018	June 20, 2018	Adapt degree structure in line with the Bologna Process	June 27, 2018
	January 18, 2019	January 30, 2019	Clarification of the admission requirements	February 6, 2019

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Section 1 General information

The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) is offered part-time and takes six semesters to complete. The division of the course into academic years and semesters is based on the provisions of the Universities Act 2002 (hereinafter referred to as UG) as amended. The course is worth 90 ECTS credits. Graduates are granted the academic title "Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol)".

1. All the work to be done by students is assigned ECTS credits. ECTS credits are based on the workload for all learning activities (including preparation and follow-up) which students usually require to achieve the expected learning outcomes. 1 ECTS credit is equal to 25 working hours. 1500 working hours represents the workload of one year of full-time study, with 60 ECTS credits being assigned for this workload (cf. Section 54 para. 2 UG as amended in connection with Section 14 para. 7 of the part of the statute on study law of the Medical University of Graz as amended).

2. Participants are required to pay a course fee to attend the postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) (cf. Section 56 para. 3 UG as amended). More detailed provisions are set out in the Guidelines for Postgraduate Courses of the Medical University of Graz as amended.

Section 2 Admission requirements

1. The admission requirements for the postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) are as follows:

□ Medical degree

or

□ Nursing degree at the bachelor's level or higher (180 ECTS) <u>and</u> two years of job experience in the field of dermatology.

or

□ A qualification equivalent to a medical degree can be accepted by the postgraduate course director (hereinafter referred to as PC director) in specific well-justified cases. In all cases, participants must have the general entrance qualification for Austrian universities or universities of applied sciences (analogous to Section 64 UG as amended) and at least three years of relevant professional experience and proof of knowledge of the methods used in science and research/scientific writing in the amount of 10 ECTS, which have been earned at a recognized post-secondary educational institution in Austria or abroad. 2. Participants must be able to read course materials written in English and participate in course units held in English.

 The PC director can invite any applicant to a personal interview to discuss their eligibility for admission. If admission is granted based on Section 2 no. 2, a personal interview is mandatory.
Admission is granted in accordance with the places available in the course. Places in the course are awarded in the order of the binding registration, subject to proof of meeting all admission requirements. 5. The Rectorate makes the decision on admission based on the recommendation of the PC director (cf. Section 60 para. 1 UG as amended).

6. Individual modules can be taken as a continuing education course if there are enough places available. The PC director is responsible for selecting and agreeing to these participants.

Section 3 Qualification profile, occupational fields, and target groups

A. Purpose of the postgraduate course

The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) provides graduates with scientific, evidence-based special knowledge and practical skills in tumor diagnostics with reflected light microscopy as well as differential diagnosis of skin diseases. Knowledge is provided not only of specific biological fundamentals of the development of skin tumors and methods and strategies for avoidance and early detection in the sense of prevention mechanisms but also of the epidemiology of skin tumors, tumor classification and therapies including a number of innovative therapeutic strategies.

The course also develops competencies in sifting through and interpreting relevant professional literature and imparts the methodological expertise required to carry out specialist research projects.

B. Qualification profile and learning outcomes

The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) provides a high level of expertise in the diagnosis of most skin tumors with reflected light microscopy and in particular of their preliminary stages and differential diagnosis. Graduates of this postgraduate course are professional as well as scientific specialists in the field of reflected light microscopy and thus can provide crucial information to non-specialist dermatologists and physicians as well as dermatooncologists about the therapeutic procedure for individual diseases. They can also significantly contribute to the diagnosis of a variety of inflammatory and immunological skin and hair diseases. Furthermore, they are able to develop prevention concepts based on scientific knowledge and adapted to reflect the latest findings. Thanks to knowledge acquired in the postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol), graduates can develop, carry out and accompany specialized and scientifically relevant research projects in reflected light microscopy, epidemiology and prevention of skin tumors.

Graduates of the postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) are able to:

□ Identify the wide range of melanocytic and non-melanocytic skin tumors using dermoscopic techniques

□ Communicate information about further medical treatment and therapeutic procedures for a variety of skin tumors

□ Work according to the latest findings

□ Generate concepts for preventing skin tumors

□ Work on scientific questions and hypotheses in dermoscopic tumor diagnostics, epidemiology and prevention

□ Develop, carry out and accompany research projects in reflected light microscopy, epidemiology and prevention of skin tumors

The course corresponds to Level 7 of the European Qualifications Framework (EQF).

C. Need and relevance of the postgraduate course for science, society, and labor market

The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) enables graduates to achieve great diagnostic accuracy in early detection of skin tumors as well as other skin diseases in order to prevent unnecessary as well as time-consuming and expensive surgical interventions. With the knowledge of prevention they have acquired, graduates are able to provide the population with information oriented to meet their demands and needs and to promote health competence with regard to the sensory organ of the skin. They are also able to initiate and accompany relevant and forward-looking studies and research projects to investigate other factors and mechanisms of skin cancer development and finally to contribute to a reduction in the incidence rate of skin cancer and the development of innovative therapies.

The following occupational fields may be of interest to graduates of the postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol):

- Dermatology
- General medicine
- □ Plastic surgery
- □ Gynecology
- □ Pediatrics
- Occupational medicine
- □ Preventive medicine
- □ Geriatrics and gerontology

D. Target group

The course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) is addressed to those with a medical degree and those with a nursing degree at the bachelor's level or higher (180 ECTS) who also have two years of job experience in the field of dermatology.

Section 4 Structure and organization

Modules

The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) is offered part-time, takes six semesters to complete, and is divided into

11 modules, for which 66 ECTS credits are awarded. 24 ECTS credits are awarded for the master's thesis and its defense. The modules must be taken in consecutive order.

	* * * * * * * * * * * * * * * * * * *				
	Module				ECTS
01	Epidemiology, primary and secondary prevention of skin tumors	70		130	6
02	Introduction to dermoscopy and general aspects of dermoscopy. Skin surface microscopy and dermoscopy	70		130	6
03	Basics of dermoscopy	70		130	6
04	Dermoscopy in general dermatology	70		130	6
05	Future aspects of dermoscopy	70		130	6
06	Dermoscopic-pathologic correlation	70		130	6
07	Dermoscopy in practice	70		130	6
08	Dermoscopy of rare skin tumors and therapy of melanoma and non-melanoma skin cancer	70		130	6
09	International Short Course of Dermoscopy		40	160	6
10	Training in a center of excellence		80	120	6
11	Scientific writing Presentation of case studies from the clinics and one's own practice	50		150	6
	Master's thesis				24

*Figures are given in course units. One course unit is equal to 45 minutes.

Academic title

Graduates of the postgraduate course are granted the academic title Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol).

Section 5 Master's thesis

1. Each participant of the postgraduate course must write a master's thesis on a course-related topic that corresponds with the Guidelines for Writing a Master's Thesis in a Postgraduate Course of the Medical University of Graz and defend it.

2. 24 ECTS credits are awarded for the master's thesis and its defense.

3. The master's thesis must include both theoretical and application-oriented parts and serves to prove the student's ability to work on scientific topics in the field of dermoscopy in an independent manner according to currently accepted standards regarding content, research, and methods.

4. The topic of the master's thesis must be chosen in such a way that it is reasonable to expect that the student can complete it within six months (cf. Section 81 para. 2 UG as amended).

5. The legal provisions and requirements of the "Guidelines for Writing a Master's Thesis in a Postgraduate Course" of the Medical University of Graz as amended must be observed during the work on the topic and the supervision of the master's thesis.

Section 6 Teaching and learning modes

(1) The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) is primarily offered as an online course and consists of 610 units of online instruction as well as 120 units of face-to-face instruction and 1470 units of self-study.

1. Face-to-face instruction:

Lecture (VO): Lectures are courses without compulsory attendance in which the instructors impart knowledge by lecturing. The lecture is assessed in the form of one examination.

Seminar (SE): Seminars serve the purpose of discussion on science-related topics and are primarily intended to stimulate the students' own work. This is ensured above all by problem-based/oriented learning (PBL/POL, i.e., independent work on the course content in small groups supervised by a moderator).

Training (PR): Trainings provide vocational training and are a useful complement to the academic education.

2. Blended learning:

Blended Learning (BL): Students acquire, deepen, and apply course-related content by means of electronically provided materials.

3. Self-study:

Self-study (SSt): Students work on questions posed by the instructors and develop skills in independently carrying out profession-related tasks.

Section 7 Language of instruction

The course is held in English.

Section 8 Name and number of hours of compulsory and elective courses

Postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol)

Module	Module/courses	Course type	ECTS	Assessment		
Module 01	Module 01: Epidemiology, primary and secondary prevention of skin tumors					
01.1	Epidemiology of melanomas and non-melanoma skin cancers	VO	2	S		
01.2	Primary skin cancer prevention	VO	2	S		
01.3	Secondary skin cancer prevention	VO	2	S		
	Introduction to dermoscopy and general aspects of and dermoscopy	of dermosco	opy. Skin	surface		
02.1	Principles of dermoscopy and technical background	VO	2	S		
02.2	Basic aspects regarding dermoscopy	VO	2	S		
02.3	Morphologic dimension of skin tumors	VO	2	S		
Module 03	Basics of dermoscopy					
03.1	Melanocytic tumors and histopathologic correlates. Non-melanocytic tumors and histopathologic correlates	VO	2	S		
03.2	Diagnostic relevance of patterns	VO	2	S		
03.3	Diagnostic algorithms	VO	2	S		
Module 04: Dermoscopy in general dermatology						
04.1	Inflammoscopy, trichoscopy	VO	3	S		
04.2	Onychoscopy, entomodermoscopy	VO	3	S		
<i>Module 05</i> : Future aspects of dermoscopy						
05.1	Reflectance control microscopy (RCM)	VO	2	S		
05.2	Optical coherence tomography (OCT)	VO	2	S		
05.3	Automated diagnosis	VO	2	S		

Module 06: Dermoscopic-pathologic correlation				
06.1	The dermatoscope and the virtual microscope	SE	3	i
06.2	The dermoscopic atlas	SE	3	i
Module	07: Dermoscopy in practice			
07.1	Melanocytic tumors on special locations	VO	2	S
07.2	Black lesions, blue lesions, red lesions, and excoriated/traumatized/recurrent lesions	VO	2	S
07.3	Follow-up of melanocytic and non-melanocytic tumors	VO	2	S
	08: Dermoscopy of rare skin tumors; therapy of melan	oma and n	on-melar	noma skin
cancer 08.1	Dermoscopy of rare skin tumors	VO	1	S
08.2	Therapy of melanoma	VO	3	S
08.3	Therapy of non-melanoma skin cancer	VO	2	S
Module	09: International Short Course of Dermoscopy			
09.1	Update on dermoscopy by international experts	VO	3	S
09.2	Practical application of different examination methods	SE	3	i
Module :	10: Training in a center of excellence			<u>I</u>
10.1	Clinical-dermoscopic diagnosis in the routine operation of a dermatological clinic specializing in dermoscopy	PR	3	i
10.2	Photographic documentation of lesions Therapeutic procedure	PR	3	i
Module	11: Scientific writing/presentation of one's own cases	from the		
clinics and one's own practice				
11.1	Scientific writing, literature research	SE	2	i
11.2	20 cases from one's own work for discussion, literature research, interpretation, development of differential diagnoses and therapeutic options	SE	4	i
	I			

Section 9 **Examination regulations**

(1) The provisions of Section 77 ff UG 2002 as amended and the provisions of the section on study law of the statues of the Medical University of Graz apply.

(2) The master's thesis may not be assessed until all the other examination subjects of the postgraduate course have been completed with a positive result.

(3) Face-to-face courses require a minimum attendance of 80%.

(4) Course examinations

In courses without continuous assessment (VO), a single examination is held, which can be written (s) or oral (m) or both written and oral. All courses except lectures are courses with continuous assessment (i). They are assessed according to the students' continuing participation and other assessment criteria which must be given to the students by the course instructor at the beginning of the course in accordance with Section 76 para. 2 UG as amended. The students' work is assessed based on the grading scale set down in Section 72 para. 2 UG as amended.

(5) Recognition of examinations

In accordance with Section 78 para. 9 UG as amended, participants can submit an application to the Rector of Studies to have examinations recognized which they completed at a postsecondary education institution in Austria or abroad. The Rector conducts the recognition procedure together with the PC director. For the examinations to be recognized, they must be equivalent in terms of learning outcomes and level of qualification.

Section 9a Maximum duration

The maximum duration is 8 semesters (Section 56 para. 5 UG as amended).

Section 10 Degree

Upon completion of all curriculum requirements and the positive assessment and defense of the master's thesis, the graduate receives a degree certificate which verifies that they have successfully completed the postgraduate course. Graduates are entitled to use the following academic title in accordance with Section 87a para. 1 UG as amended:

Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol)

Section 11 Director

The decision on the academic and administrative PC director and their deputy, as well as the subjectspecific PC directors and their deputies (in the case of interdisciplinary postgraduate courses) is made by the Rectorate. The appointment is made by the Rector and is published in the bulletin of the Medical University of Graz. 11

Section 12 Host

The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) is carried out by the Medical University of Graz.

Section 13 Evaluations/quality assurance

The postgraduate course Master of Dermoscopy and Preventive Dermatooncology (M.Sc.DermPrevOncol) is integrated in the quality management system of the Medical University of Graz. All the courses of the postgraduate course as well as the overall postgraduate course are evaluated (cf. Guidelines for postgraduate courses of the Medical University of Graz as amended) in cooperation with the participants, the instructors, the PC director, and the members of the Rectorate responsible for studies and teaching.

Section 14 Entry into force

The curriculum enters into force upon publication in the bulletin of the Medical University of Graz.

Section 15 Transitional provisions

Students who are registered at the time this curriculum enters into force for the postgraduate course Master of Science in Dermoscopy and Preventive Dermatooncology at the Medical University of Graz, published in the bulletin of the Medical University (Bulletin of January 1, 2015, Academic Year 2014/15, No. 9), are entitled to finish their studies by no later than April 30, 2020.

Appendix 1 Module descriptions

Module name	Epidemiology, primary and secondary prevention of skin tumors
Module code	01-MD
Workload	6 ECTS
Content	Epidemiology of malignant melanomas and non-melanocytic skin tumors
	Primary skin cancer prevention
	Secondary skin cancer prevention
Learning outcomes	After completing this module, students are able to
	Describe the epidemiology of malignant melanomas
	Identify the epidemiology of non-melanocytic skin tumors and
	Suggest appropriate preventive measures to prevent the formation of skin cancer
	Conduct skin cancer screenings in a professional manner
Teaching and learning activities	VO, BL, ST
Courses	Epidemiology, VO, 2ECTS
	Primary prevention, VO, 2 ECTS
	Secondary prevention, VO, 2 ECTS
Type of examination	Written exam

Module name	Introduction to dermoscopy and general aspects of dermoscopy. Skin
	surface microscopy and dermoscopy
Module code	02-MD
Workload	6 ECTS
Content	Principles of dermoscopy and technical background
	Basic aspects regarding dermoscopy including types of equipment
	Types of skin tumors
	Inflammatory dermatoses
	Hair diseases
Learning outcomes	After completing this module, students are able to
	Assess physical/technical aspects of dermoscopy
	Use different types of equipment depending on the situation
	Categorize skin tumors
	Differentiate between different skin and hair diseases
Teaching and learning activities	VO, BL, ST
Courses	Principles of dermoscopy, VO, 2 ECTS
	Basic aspects regarding dermoscopy, VO, 2 ECTS
	Morphologic dimension of skin tumors, VO, 2 ECTS
Type of examination	Written exam

Module name	Dermoscopic criteria and morphology
Module code	03-MD
Workload	6 ECTS
Content	Melanocytic tumors and histopathologic correlates. Non-melanocytic tumors and histopathologic correlates
	Diagnostic relevance of patterns
	Diagnostic algorithms
Learning outcomes	After completing this module, students are able to
	Differentiate between dermoscopic patterns
	Match these with different tumors
	Categorize skin tumors based on dermoscopic analyses
	Generate findings with the help of algorithms
	Present and interpret algorithms and analysis results
Teaching and learning activities	VO, BL, ST
Courses	Dermoscopic criteria, VO, 2 ECTS
	Dermoscopic patterns, VO, 2 ECTS
	Algorithms, VO, 2 ECTS
Type of examination	Written exam

Module name	Dermoscopy in general dermatology
Module code	04-MD
Workload	6 ECTS
Content	Inflammoscopy
	Trichoscopy
	Onychoscopy
	Entomodermoscopy
Learning outcomes	After completing this module, students are able to
	Categorize inflammatory-immunological diseases,
	Assign dermoscopic results to inflammatory and immunological hair diseases
	Identify nail diseases including nail tumors
	Assess parasitic skin diseases
Teaching and learning activities	VO, BL, ST
Courses	Inflammoscopy, Trichoscopy, VO, 3 ECTS
	Onychoscopy, Entomodermoscopy, VO, 3 ECTS
Type of examination	Written exam

Module name	Future aspects of dermoscopy
Module code	05-MD
Workload	6 ECTS
Content	Reflectance control microscopy (RCM)
	Optical coherence tomography (OCT)
	Automated diagnosis
Learning outcomes	After completing this module, students are able to
	Assess new optical/technical procedures in terms of diagnosis
	Use reflectance control microscopy as an additional diagnostic tool
	Interpret optical coherence tomography
	Differentiate between the pros and cons of automated methods, including teledermatological techniques
Teaching and learning activities	VO, BL, ST
Courses	Reflectance control microscopy (RCM), VO, 2 ECTS
	Optical coherence tomography (OCT), VO, 2 ECTS
	Automated diagnosis, VO, 2 ECTS
Type of examination	Written exam

Module name	Dermoscopic-pathologic correlation
Module code	06-MD
Workload	6 ECTS
Content	The virtual microscope
	The dermatoscope
	The dermoscopic atlas
Learning outcomes	After completing this module, students are able to
	Critically evaluate different lesions
	Interpret results by correlation of features
	Solve challenging cases
	To summarize clinical-dermoscopic results and correlate them with histological results
Teaching and learning activities	SE, BL, ST
Courses	The dermatoscope and the virtual microscope, SE, 3 ECTS
	Diagnostic skills, SE, 3 ECTS
Type of examination	Continuous assessment

Module name	Dermoscopy in practice
Module code	07-MD
Workload	6 ECTS
Content	Melanocytic tumors on special locations
	Black lesions, blue lesions, red lesions, and excoriated/traumatized/recurrent lesions
	Follow-up of melanocytic and non-melanocytic tumors
	Genetics of melanomas
Learning outcomes	After completing this module, students are able to
	Interpret dermoscopic results on acra and face
	Implement follow-up examinations and supervise these
	Critically assess technical tools with regard to follow-up examinations
	Discuss genetic influences on the development of melanomas
Teaching and learning activities	VO, BL, ST
Courses	Specific localizations , VO, 1 ECTS
	Red, blue, black lesions, VO, 1 ECTS
	Follow-up, VO, 2 ECTS
	Genetics, VO, 2 ECTS
Type of examination	Written exam

Module name	Dermoscopy of rare skin tumors; therapy of melanoma and non-
	melanoma skin cancer
Module code	08-MD
Workload	6 ECTS
Content	Dermoscopy of rare skin tumors
	Therapy of melanoma
	Therapy of non-melanoma skin cancer
Learning outcomes	After completing this module, students are able to
	Assess rarely occurring lesions and categorize them according to their dignity
	Create therapeutic approaches for different scenarios
	Assess the most important therapy modalities for advanced tumors
Teaching and learning activities	VO, BL, ST
Courses	Dermoscopy of rare skin tumors, VO, 1 ECTS
	Therapy of melanoma, VO, 3 ECTS
	Therapy of non-melanoma skin cancer, VO, 2 ECTS
Type of examination	Written exam

Module name	International Short Course of Dermoscopy
Module code	09-MD
Workload	6 ECTS
Content	
Learning Outcomes	After completing this module, students are able to
	Analyze, present, and discuss results and data with international experts
Teaching and learning activities	VO, SE, ST
Courses	Update on dermoscopy by international experts, VO, 3 ECTS
	Practical application of different examination methods, SE, 3 ECTS
Type of examination	Written exam, continuous assessment

Module name	Training in a center of excellence
Module code	10-MD
Workload	6 ECTS
Content	Diagnosis of patients, analysis and interpretation of lesions
	Photographic documentation of lesions
	Therapeutic procedure
Learning outcomes	After completing this module, students are able to
	Assess skin tumors of patients
	Apply different dermoscopic techniques
	Define follow-up methods
	Document skin lesions using different technical means
Teaching and learning activities	PR
Courses	Diagnosis of patients, PR, 3 ECTS
	Photographic documentation of lesions, therapeutic procedure, PR, 3 ECTS
Type of examination	Continuous assessment

Module name	Scientific writing, scientific presentation of own case studies from the clinics and one's own practice
Module code	11-MD
Workload	6 ECTS
Content	Scientific writing, literature research
	20 cases from one's own work for discussion, literature research, interpretation, development of differential diagnoses and therapeutic options
Learning outcomes	After completing this module, students are able to
	Apply processes of scientific working methods,
	Research, analyze, and critically evaluate specialist literature on dermoscopic topics,
	Correctly cite sources in accordance with scientific standards,
	Analyze data on relevant scientific issues and write scientific texts
	Analyze and discuss difficult-to-diagnose lesions and defend your results
Teaching and learning activities	VO, BL, ST
Courses	Scientific writing, VO, 2 ECTS
	20 case studies from own work, SE, 4 ECTS
Type of examination	Written exam, continuous assessment

Appendix 2 List of abbreviations

BL	Blended Learning
ECTS	European Credit Transfer and Accumulation System
EX	Excursion
i	continuous assessment
КО	Colloquium
LR	Learning group
m	oral
PBL/POL	Problem Based Learning/Problem Oriented Learning
PC	Postgraduate course
PR	Training
S	written
SE	Seminar
ST	Self-study
SU	Seminar with exercise
TU	Tutorial
UE	Exercise
VO	Lecture
VU	Lecture with exercise